

James Mankin, Laboratory Development Takes Electrical Engineer MS At UT

6-12964



James B. Mankin Jr.

Surplus Property Sale Announced

A surplus property sale is announced by the property sales department. Included in the latest 'spot bid' sale are used vehicles and office equipment. There are Chevrolet, Dodge, Ford, Reo and International trucks, Plymouth, Chevrolet and Lark Sedans.

Also included are typewriters, adding machines, a bookkeeping machine, filmsound projector and other miscellaneous lots.

Inspection may be made from 8 a.m. until 4 p.m. Mondays through Fridays up to the time the bids are closed for each lot. Inspection and sales are held at Warehouse 9929-1, off Bear Creek Road, west of Y-12.

The sale will be held Wednesday, September 29, and it is anticipated that successful bidders may pay for and remove their purchases after 2 p.m. that same day.

Additional information may be obtained for the sales office, extension 3-4601.

Thursday, August 26, was degree-taking time at the University of Tennessee as the Vols awarded diplomas ending the summer quarter. Y-12's big entry in the scholarly competition was James B. Mankin Jr., Laboratory Development. Jim took his MS degree in electrical engineering.

He already held a BS which he received in 1957. Before coming to Y-12, September 26, 1960, Mankin was with the Tennessee Valley Authority. He served with the Signal Corps, Ft. Monmouth, New Jersey, in between his TVA days.

Much of the credit needed for his PhD has been acquired, so it's back to the books for Mankin.

He lives at 11 Cooper Circle, Oak Ridge, with his wife and three children. Mrs. Mankin is the former Anne Howell . . . and the children are James B. III, Cynthia Leigh, and Pamela Jane.

Mankin is a native of Chattanooga.

Carbide's Educational Assistance Program, naturally has a strong supporter in the plant's newest degree-taker.

Basic Education Class Begins In Oak Ridge

A basic education class for adults will be offered at the Oak Ridge High School this fall on Mondays and Fridays. The class began Monday, September 13, from 7:30 until 9:30 p.m. Students may still enroll, however.

Persons interested in learning to read signs, to read simple directions, do simple arithmetic, read menus, recipes, etc., are invited to attend.

The Course is under the auspices of the Oak Ridge Board of Education, and there is no charge.

HIGH COST OF R&D

Total research and development expenditures in the United States are expected to approach an all-time high this year . . . an estimated \$22 billion.

East Tennessee AIE Names Y-12er Nelson Bethea Engineer Of The Year

Honors recently came to Nelson H. Bethea, Specifications and Systems Department, Product Engineering Division. The East Tennessee Chapter of the American Institute of Industrial Engineers named Bethea the outstanding engineer of the year.

D. J. Bostock, head of Systems and Methods in Y-12, was the speaker at the AIEE meeting, held September 7, at the Farragut Hotel, Knoxville. Bostock spoke on Network Analysis, including the Critical Path Method which is currently receiving wide acclaim and utilization.

Guests at the meeting were 12 engineers from Mexico and South America who were in East Tennessee touring Tennessee Valley Authority facilities.

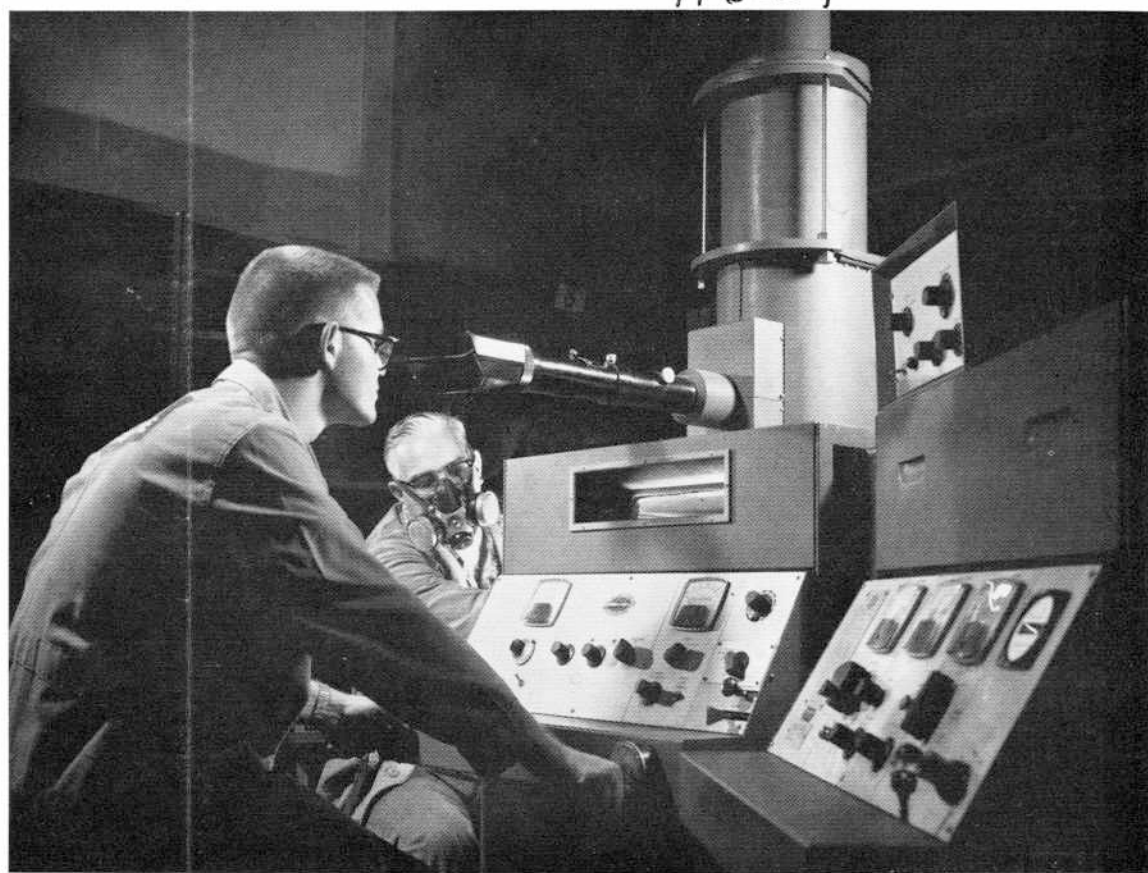
Betha has served as a member of the board of directors of the national AIEE and is a gradu-



Nelson H. Bethea

ate of the University of Tennessee.

He lives at 414 Forest Park Boulevard, Knoxville.



THIS ELECTRON BEAM WELDER is used to weld toxic materials within a vacuum chamber. Advantages include deep weld penetration, tiny weld bead with little distortion and no atmospheric contamination. H. N. "Hank" Benninghoff Jr., co-op student, left, is assisting Edward Luttrell in aligning the materials to be welded. Luttrell wears a protective mask while he loads the toxic specimen into the welding chamber. This device is expected to have many applications in welding materials for the nation's space and defense programs.

Material Handlers Meeting Tomorrow

The first meeting of the year for the East Tennessee Chapter of the American Material Handling Society will be held tomorrow, Thursday, September 16.

Guest speaker will be L. A. Hutchinson, chief design engineer for Von Gal Manufacturing Company, Montgomery, Alabama, who will speak on "Pilot Loading and Automatic Materials Handling."

The meeting of the AMHS is scheduled at the Copper Kettle, on Solway Highway in Knoxville. Dinner begins at 6:30 p.m., and the technical meeting will start at 7:30.

All visitors and prospective new members are welcome. Dinner reservations may be made through Ray Riggs, extension 3-5877.

ASME Smoker Set At Elks Thursday

The Oak Ridge Sub-Section of the American Society of Mechanical Engineers will meet tomorrow, Thursday, September 16. The meeting is set at the Elks Lodge, Arkansas Avenue, Oak Ridge, at 7:45 p.m.

The Smoker will feature remarks by the chairman, two films: "The ASME, Where your Profession Meets," and "The Anatomy of a Championship" (Cleveland Browns vs. Baltimore Colts, December, 1964 in Super-slow motion, color.)

There will be free refreshments and cards to polish off the evening. All members and prospective members are welcomed at the Smoker.

'Search And See Where You May Invest Your Humanity'

A student nurse propped her weary head over a fat textbook and tried to turn her thoughts away from the patient she had just attended. There were facts to be memorized before tomorrow's class but it was difficult to erase the memory of a face, contorted with pain, and concentrate upon symptoms listed coldly upon a printed page.

Two foster parents debated behind closed doors on the best way to handle the tantrums their newest child produced whenever he had to conform to the family's code of good conduct. It was not his fault that he had never had a normal home life — they would have to find the right way to reach him.

Why Do People Care?

Why would a man and his wife open their home to another couple's child and give it the loving care its own parents could not or would not give? The role of the foster parent is not an easy one and there are certainly less

time-consuming ways of earning a little extra income.

Why does a nurse work long, hard hours in a hospital? Why do some men and women spend their lives in services for the handicapped, in counseling the troubled, in caring for society's less fortunate members? Again, certainly, there are easier ways to earn one's living.

The answer can probably be found in the late Albert Schweitzer's recommendation:

"Open your eyes and look for some man, or some work for the sake of men, which needs a little time, a little friendship, a little sympathy, a little toil . . . Search and see if there is not some place where you may invest your humanity."

'My Brother's Keeper?'

Those people who "invest in humanity" must do so because they believe they are their brothers' keepers. They seek the means of employment, or the volunteer service jobs, that will help them fulfill their urge to do something for their fellow men.

Giving love to a frightened child, comforting the lonely — bringing security into the lives of the old and neglected—tending the sick — helping the handicapped, the blind, the mentally ill — striving to instill the precepts of useful citizenship in the minds and hearts of youngsters—these are the gifts one individual gives another when he believes he is his brother's keeper.

Important Jobs

There are many jobs to be done in our society, important tasks

Continued on Page 4

SAFETY SCOREBOARD
The Y-12 Plant Has
Operated
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1,607,000 Man-Hours
(Unofficial Estimate)
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On Accident-Free Hours
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The Bulletin

Published Weekly For The
Y-12 Employees Of
UNION CARBIDE
CORPORATION



NUCLEAR DIVISION

JAMES A. YOUNGEditor

Member



Appalachian
Industrial
Editors'
Association

OFFICE

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Oak Ridge, Tenn. 37831
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Mid-September marks more anniversaries for Y-12ers with Union Carbide Corporation. Congratulations.

20 YEARS

Herman L. Menchhofer, Machine Maintenance, September 19.

15 YEARS

David A. Jennings, Maintenance Division, September 18.

William P. Moore, Buildings, Grounds and Maintenance Shops, September 18.

Charles E. Walker, General Machine Shop, September 18.

Fred B. Matthews, Research Services, September 19.

Chester L. Johnson, Garage, September 19.

Immer J. C. Maples, Utilities Administration, September 19.

Milton M. Dickens, Dispatching Department, September 20.

Claude L. Westmoreland, Buildings, Grounds and Maintenance Shops, September 21.

Jack D. Barnette, Utilities Administration, September 21.

10 YEARS

James E. McNabb, Chemical Services, September 19.

Marie W. Hensley, Engineering Division, September 19.



Ride wanted from Howard Lane, Hillside, High Area, Oak Ridge, to North Portal, straight day. Mark Rosen, plant phone 3-7237, home phone Oak Ridge 483-5055.

Playhouse Sets Dance Saturday In Oak Ridge

The Oak Ridge Playhouse opens the 1965-66 season with its annual Fall Dance, Friday, September 17, at the Oak Ridge Country Club. The doors will open at 9 p.m., and dancing to the music of Tony Musko will continue until 1 a.m.

Memories of your favorite musicals will be revived during the intermission skit written by Ruth Carey.

Tickets, selling for \$1.75 per person may be obtained from Mrs. R. E. McPherson, Mrs. William Wilcox or Mrs. Robert Min-turn.

WORD ORIGIN

Some believe the word "noot-nanny" originated with a boisterous female folk singer years back who called herself "Hootin' Annie."



Mr. and Mrs. Don Wayne Bible



Mrs. Robert Stewart Cummings

CUMMINGS—WATSON

Miss Carol Ann Watson was married Saturday, August 14, to Mr. Robert Stewart Cummings. The afternoon wedding was performed at the First Christian Church, Oak Ridge, with the Reverend Edward Galloway officiating.

The bride is the daughter of Mr. and Mrs. Charlie W. Watson, 125 Manchester Road, Oak Ridge. (Her father is in Y-12's H-2 and F-Area Shops.) The groom is the son of Mr. and Mrs. William Cummings, Philadelphia, Pennsylvania.

The bride chose for her wedding a white linen dress, styled with an Empire waistline, a chapel length train, complemented by an organza bolero. Her waist length illusion veil fell from a petal shaped headpiece. Her bridal bouquet held a cascade of white roses with a white orchid for the center.

Miss Gail Jacobs, Chattanooga, was maid of honor and Miss Katie Watson, sister of the bride, was bridesmaid. Karen Hill, Birmingham, Alabama, was flower girl.

The groom's attendants were Harry A. Hill Jr., Birmingham, best man; and ushers Harry A. Hill Sr., Buddy Watson, Lips-



BIBLE—JOHNSON

A Friday, August 13, wedding united two Y-12 families. Miss Mary Louise Johnson became the bride of Mr. Don Wayne Bible, at the Glenwood Baptist Church. The Reverend Victor Watts officiated, and Mr. George McFaddin, minister of music, was the vocal soloist and Mary Blackburn was the organist.

The bride is the daughter of Mr. and Mrs. Raymond E. Johnson, 106 Albany Road, Oak Ridge. Her father is in Y-12's A-2 Shops, 9212. The groom is the son of Mr. and Mrs. Albert V. Bible, 103 Ogantz Lane. His father is in Y-12's Receiving Department.

Given in marriage by her father, the bride wore a full length gown of silk organza trimmed with lace applique. Her skirt was completed by a Chapel train. The shoulder length illusion veil was held by a rhinestone and pearl tiara. She carried a white satin Bible with a white orchid and white streamers.

Miss Elizabeth A. Johnson, sister of the bride, was maid of honor. Other attendants were Misses Linda Reed and Donna Tilley, both of Oak Ridge. Miss Rennee Johnson, sister of the bride, was ring bearer.

The groom's attendants included Curtis Bowles, best man, and Jerry Parrott and Ronnie Underwood, ushers, all of Oak Ridge.

Both the bride and groom are graduates of Oak Ridge High School. The groom attended the University of Tennessee and is presently employed as a lab technician with Abbott Laboratories.

After a wedding trip to Daytona Beach, the couple is at home in Oak Ridge, awaiting the groom's reassignment with Abbott at Waukegan, Illinois.

Shop Course Is Offered For Fall Quarter In OR

A shop course will be made available to interested Y-12ers again this fall at the Oak Ridge High School. General machine shop practices, machining, blueprint reading, theory, and mathematics are some of the areas covered in the special course.

Anyone interested in taking the course, should contact Frank Fuis Jr., extension 3-5923. Special arrangements may be made for shift workers.

comb, Alabama, and Gregg Hill, Birmingham, ring bearer.

A reception honored the couple in fellowship hall following the ceremony.

The bride is a graduate of Oak Ridge High School, and holds a BS degree in home economics from the University of Tennessee. She is employed in the bureau standards of the Associated Merchandising Corporation.

The groom is a graduate of Pierce College, Pennsylvania; and a member of the U. S. Coast Guard Reserve. He is also employed by the Associated Merchandise Corporation.

After a wedding trip to Florida, the couple is at home at 83-30 Victor Avenue, Elmhurst, New York.

LITTLE CHOICE

"Women are not so hot . . . but then they're the best opposite sex we have." Will Rogers.



A SHIFTERS GOT A REAL softball game going recently . . . even with the mayor (Al Bissell) tossing out the first ball. In the lower shot, one of the A Shifters lets go with a powerful hit.

Softball

A Shift PSS, Utilities, Production Folk Down Fire, Guard, Maintenance

August 31 was a red-letter day for A Shifters. The Plant Superintendents, Utilities and Production folks got up a softball game with Maintenance, and Fire and Guard Personnel.

The Pinewood Park duel went on schedule . . . even with Mayor A. K. Bissell tossing out the first ball.

The PSS, Utilities and Production team defeated the other A Shifters to the tune of 12 to 10 to the delight of 63 families watching from the stands.

To give the losers a chance to rectify their "errors" a second game has been set for September 22 . . . that's next Wednesday, if it doesn't rain!

October 3-9 Fire Prevention Week

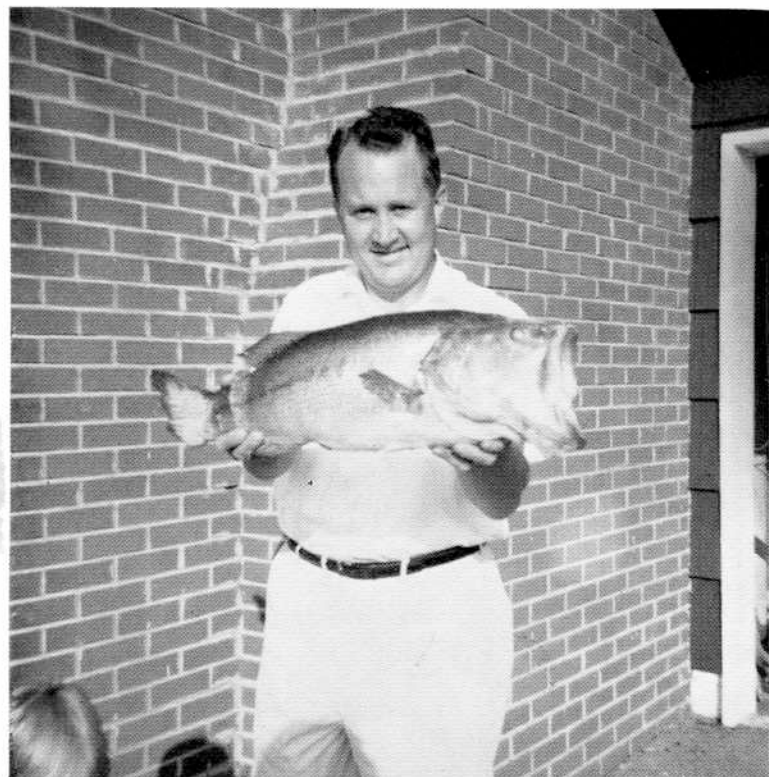


CLEAN UP



FOR FIRE SAFETY

PRINTED IN USA H-14 © 1965 NATIONAL FIRE PROTECTION ASSOCIATION, 60 BATTERYMARCH STREET, BOSTON, MASS., USA



PROVING ONCE AGAIN that the waters of this section are known for their largemouth bass is John R. Bosson, Process Maintenance. John pulled this lugger from the Cherokee waters recently. Weight? . . . that's a big secret; the monster is entered in the Fishing Rodeo.

Half Of Softball Teams Eliminated As Tournament Sees Nine Games Played

Nine teams have been eliminated from the ORNL-Y-12 Softball Tournament, which resumes action this week. Falling in the first action were the Atoms, Teds, Braves, Instrumentation & Controls, Ball Hawks, Bat Boys, Stems, Bums, and the Nucons.

Y-12's Atoms got the axe early in the tournament, falling in game number one. The victors were the Stems who defeated the Atoms 17 to 9. Homer Hupf produced the only slam of the game. Jerry Cosgrove, Vernon Jenkins and John Haffey slammed long triples for the winning Stems.

Y-12 Team Falls

Another Y-12 team got its wings clipped in game number two. The Bums took the Teds 19 to 10. Jerry Davis beat out two triples for the losing Y-12 squad, John Chapman clipped one.

To make the Tuesday action a complete dud for Y-12, the Braves lost to the ORNL Mets 4 to 3 in a tight one. The Braves out-hit the Mets 11 to 8 . . . but did not get the necessary payloads across homeplate. Bill Sise had the only homer of the game, taking a four-bagger for the winning Mets.

Wednesday's first game provided a partial answer to how far the Isotopes Reactor team would go in tourney play. The IR team, ORNL, took the crown in regular season play. In their debut in the tournament, IR blasted Instrumentation & Controls 17 to 6. Don Tidwell provided a homerun for the winning champs.

Wednesday's second game came as no thriller at all . . . as the Permits won a forfeit over the Ball Hawks.

Another Y-12 team bit the dust as the Apprentices edged by the Bat Boys 17 to 14. John Evans poled a long homer for the losing team.

Coffey Homers Thrice!

Thursday's action began as the Plant & Equipment team swept past the Stems 29 to 6. Tom Coffey kayoed THREE homeruns for the winning team, Charles Dunn, Ken Wallace and Jim Chesney all collected one each.

K-25 Mets smothered the Bums 13 to 6 in Thursday's second duel. Bob Henderson homered for the winning Mets.

The final game of the week saw

Recreation



Saturday, September 18

GOLF: All Carbide Tournament, Melton Hill Country Club.

Sunday, September 19

GOLF: All Carbide Tournament, Melton Hill Country Club.

Monday, September 20

TENNIS LEAGUE: By arrangement as per schedule.

BOWLING: 5:45 p.m., C League, Ark Lanes.

PISTOL LEAGUE: 7:30 p.m., Anderson County Gun Club.

Tuesday, September 21

PHYSICAL FITNESS: 7:30 p.m., Oak Ridge High School Gymnasium.

Wednesday, September 22

BOWLING: Mixed League, 8 p.m., Ark Lanes.

Thursday, September 23

BOWLING: Classic League, 5:45 p.m., Ark Lanes.

Saturday, September 25

FISHING RODEO: E, F, G, H & J Shifts, Smallmouth Tournament, Stardust Boat Dock, Norris Lake, T. S. Higgins, Chairman.

DINNER-DANCE: Assembly Division, Melton Hill Country Club.

Gray-Leonard Take Horseshoe Championship

Tip Gray and Bob Leonard became 1965's big Horseshoe champions last week. They defeated the Harrison Raper-Joe Tinley duo by a score of seven points to two.

Gray-Leonard took the second half of the league standings . . . Raper-Tinley captured the league's first half.

Y-12's Eagles take a close win from the Nucons . . . 6 to 5. Hugh Richards provided the only long hit of the game, collecting a triple. Doubles were earned, however, by Bill Smith and Tom Watts . . . all for the winning Eagles.

Play Is Resumed

Play for the remaining nine teams resumes this week.

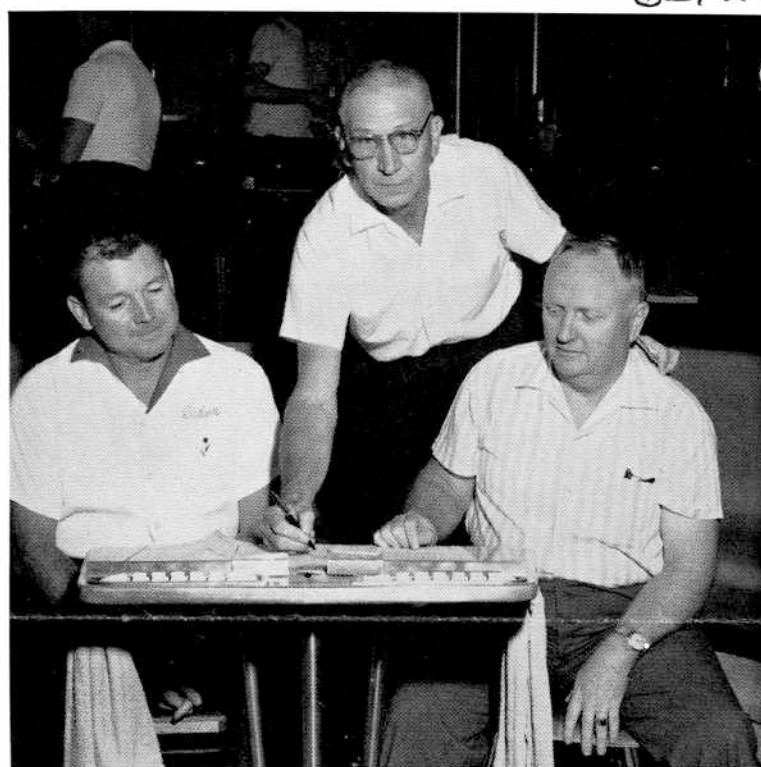
A play-off must decide which team takes second place in season play . . . as the ORNL Mets, Plant & Equipment, and the Y-12 Eagles are all in there.

OLD HAT SAYING

Two can live as cheaply as one, but nowadays it takes both to earn enough to do it.



DICK BROTHERS, PLAYBOYS, right, took a buckle in the Classic League for being last year's most improved bowler. Roy Roberts, league secretary, left, makes the presentation.



OFFICERS FOR THE 1966 Classic League ready themselves for a full season of action on the alleys . . . as bowlers all over the plant hit the maple. From left, J. H. (Tudor) Boyd, president; Roy Roberts, secretary-treasurer; and George Cantrell, vice president, initiate the league's first night.

Bumpers' Markland, Galloway, Help Keep Team Atop Classic League's Early Race

The only four-point sweep among Classic bowlers last week went to the Wasps over the Playboys . . . but the Bumpers clung to their early league lead by wresting three points from the Splinters.

Other three point wins went to the Eightballs over the Swingsters, the Has Beens past the Markers, the Tigers tall over the All Stars, the Rippers roaring past the Screwballs and the Cubs overcoming the Rebels. A split two-two decision went to the Smelters and Wolves.

J. Markland, Bumpers, rolled a 224 scratch game, as did E. B. Galloway, also of the Bumpers. W. C. Hoppe, Wasps, took a 243 handicap single. Sewell Brown, Has Beens, rolled a 579 scratch series; H. L. Horton, Cubs, posted a 654 handicap series.

The Bumpers boasted a 906 scratch single total . . . and the Rippers took the rest of the board . . . rolling handicap singles of 1023, and series of 2607 scratch, 2920 handicap.

League standings follow:

Team	W	L
Bumpers	7	1
Eightballs	6	2
Has Beens	6	2
Smelters	5	3
Wasps	5	3
All Stars	4	4
Rebels	4	4
Swingsters	4	4
Screwballs	4	4
Tigers	4	4
Rippers	4	4
Cubs	4	4
Wolves	3	5
Splinters	2	6
Playboys	1	7
Markers	1	7

Bush Bowling League Needs Teams Or Singles

Recreation says it's still hard put for bowlers in the Bush League . . . either full teams or individual bowlers. The Bush League rolls Monday nights at 8 p.m. Any Y-12er wishing on the squad, or wishing to enter a full team should call extension 3-7109.



"They've put my lunch on the list of safety hazards!"



THE BIG STATE CHAMPS, Little League-wise, are the LaFollette All Stars, seen above. In the front row, left to right, are Quinn Smith, Jeff Bullock, Lonnie Wilson, Darryl Woods, Scott Gibson and Dennis Powers. In the back row are Junior Honeycutt, son of Sherley, Guard Department, manager; Lonnie Dupuy, Clyde Seiber, James Carson, (son of G. L., Utilities); Gary Lovett, Danny McCullah, Keaton Jordan, Mark Russell, Leland Miller and John Letner, co-manager, son of R. H., Buildings, Grounds and Maintenance Shops.

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Art Center Gives Seminar; Schedule

The Oak Ridge Community Art Center announces a series of art seminars, set for this fall and winter. Next Sunday, September 26, Professor Bill Loy will be the speaker. On October 24, C. Kermit Ewing is scheduled to speak . . . and on January 9, Ron Castle is the guest lecturer. Dr. Dale Cleaver will be the seminar leader on February 6.

Admission for the entire series of four lectures is \$2.50 for Art Center members and the public, \$1 for class participants and high school juniors and seniors . . . and free to Art Center Sponsors and patrons. The series will be held at the Oak Ridge Holiday Inn, beginning at 8 p.m.

Tickets are available at Love-man's and the Art Center.

The Center also announces its class schedule for the Fall. Beginning today, September 15, Ben Benjamin will start a class on jewelry making. Also beginning this week, Ernest Wilson and Jane Larson will instruct students in ceramics.

Painting, figure drawing, lithography, principles of drawing and design, watercolors, sculpture and painting for beginners all will be offered at the Center. A nominal cost of \$20 is required for the 12-lesson courses. Each class includes orientation, lectures and critiques.

Join the Art Center's 1966 membership drive now in progress.

BLONDES MORE VULNERABLE

Believe it or not, medical reports indicate that blondes and redheads may be more vulnerable to poison ivy than brunettes. The lighter our skin, the more susceptible we seem to be to irritation and sensitization from the vast family of rash-producing plants and trees.

Fincher Daughter Serves In US WAC

Visiting Parents
On Initial Leave



Pvt. Carol A. Fincher

Private Carol A. Fincher recently completed basic training at Fort McClellan, Alabama, as a member of the Women's Army Corps. Carol is the daughter of Mr. and Mrs. J. B. Fincher Jr., 111 Waltham Lane, Oak Ridge. Fincher is in Y-12's 9766 Machine Shop.

Presently Carol is spending a 15-day leave with her family. She then reports to her new assignment in the administration field at Fort Knox, Kentucky.

Carol is a 1965 graduate of Oak Ridge High School.

into the wet paint to make abstract drawings. See how primary colors become other colors when they are mixed.

Make Christmas tree ornaments and gift package decorations by fastening straws with wire into pom-poms. You can also cut straws into small links . . . then string them together alternating colors to make a pretty garland.

Make Caricatures

Staple straws together to form "stick" figures of people and animals or you can use a styrofoam ball for the head and straws for whiskers, body, arms and legs.

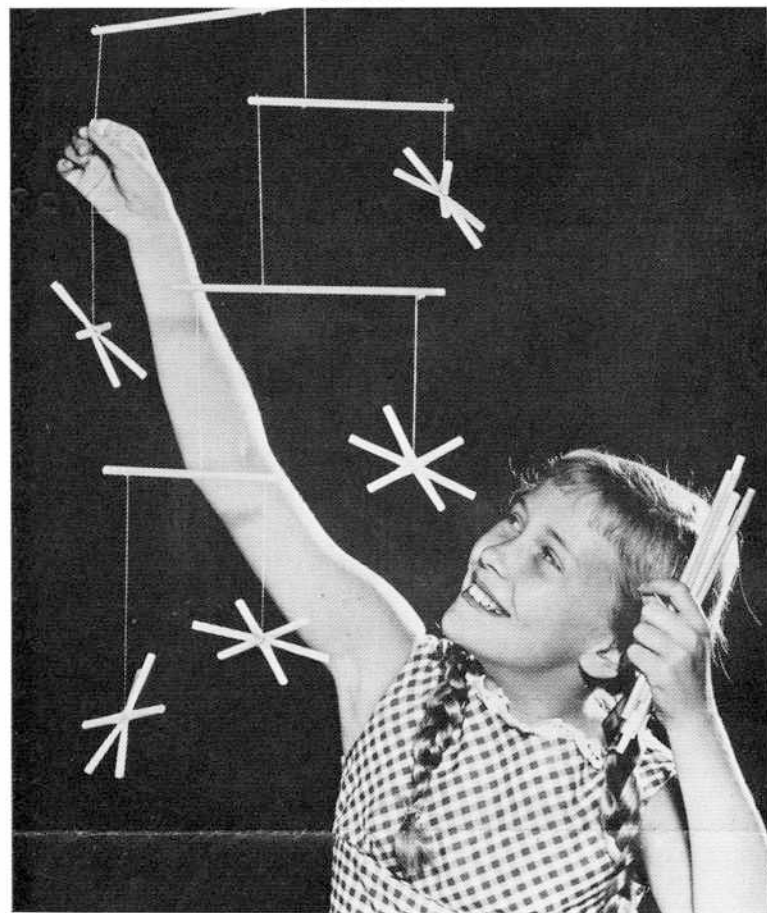
Help Junior construct a log cabin from the colorful straws. With a few straws, some glue and a lot of ingenuity, you can pass the rainy afternoon off rather quickly without too much effort.

Oh, yes, you can use the Glad straws to drink from too!

DOUBLING UP

All the knowledge acquired by man and preserved in usable form from the beginning of history to the year 1750 was doubled in the following century and a half — that is, by 1900. It required 50 years for the second doubling, ten years for the third, and you will need only seven years for the fourth!

Obey security regulations.



'STRAWS IN THE WIND' is what Union Carbide calls this mobile . . . made from Glad Straws, available in the company store at North Portal.

Straws In The Wind

Glad Straws Can Give Rainy Afternoons A Lift!

New uses for straws may never replace sipping cider with your best beau (well, let's hope not, anyway) . . . but next time a rainy day keeps the children underfoot, try some of these indoor activities suggested by the "Glad" products home service group.

The multicolored plastic straws are great for games: pick-up sticks (straws), learning colors, and counting (each color is given a different value.)

Demonstrate the principle of the weather vane . . . using a straw as the arm and a straight pin as the pivot. Or demonstrate a vacuum to the building young scientist . . . inhale through a straw to pick up and hold bits of paper.

Make a poster or a greeting card. Cut straws into small lengths and use to form letters. Paste on poster board or card. (You can even do some freeform artwork yourself!)

Frame A Picture

Make a frame for a child's drawing by pasting straws around the outer edges. Make free-form mobiles . . . using various lengths and colors of straws. Thread on string, or use wire and staples. (See illustration).

Pour blobs of the three primary colors on a canvas or sheet of paper. Blow through a straw



ATTENDING THE UT WORKSHOP for Mayors and Councilmen, held on campus August 19, 20, was Norris R. Parrott, Metallurgical Development, right. He chats with Robert Hutchison, director of the University's Government Industry Law Center. UT



KINGSTON CITY OFFICIALS attending the University of Tennessee's Workshop for Mayors and Council included Chester R. Fultz, Laboratory Development, and William L. Harwell, Legal Staff. Fultz is mayor of Kingston, Harwell is city judge.



Katy Kutkost
SEZ:

'Invest Your Humanity'

Continued from Page 1
that promote the general welfare, security and happiness of the nation. The people who perform such duties may not have an opportunity to come into direct contact with any of the people who need such personal services. Not every man and woman can perform his duty to his fellow man in person.

But, what some people can do, others can help pay for. It costs a great deal of money to pay for all the specialized services that are required to care for the ill of mankind.

United Fund Aids

The 30,800,000 contributors to United Funds and Community Chests, who annually support the services of some 34,500 local, state and national health, welfare and recreation agencies, are all keepers of their brothers' welfare.

Plans for the 1965-66 United Fund drives in the Union Carbide Corporation installations will be announced shortly.

hand, since the saving to Y-12 is \$30,000 a year, it shouldn't sound too simple. Somebody might ask, "Why didn't you do it sooner?"

DWELLERS IN THE SHADE

Nobody ever gained a place in the sun by hiding under a family tree.

Security in Engineering Has Broken Down!

. . . as a result, enemies of high cost will be aided and abetted.

Instead of keeping it a secret the Civil and Architectural Group is publishing a new standard for utility supports which is 53 per cent less (\$85 vs \$180) than the old style made out of 4" pipe, 12 feet high.

Riding down First Street last winter the beloved 'Big Daddy' of Engineering, Bill Heckert, noticed a run of steam line being held up "oversubstantially," even allowing for the Crossville lady's heavy snow prediction.

He asked the engineers if they would kindly arrange to value analyze the support (Exact quote somewhat smokier.)

Charlie Oldham delivered. The key to the big cost reduction was making the poles square instead of round. Upon being asked "How come?" Charlie sez, "A square section allows for more weld area further away from the neutral axis which, naturally, requires less gusseting."

We hope to simplify Charlie's simple explanation before headlining this in the next LBJ Cost Reduction Report. — On the other